

SEARCH REQUEST FORM

88

Requestor's

Name: Alan Matthews

Serial

Number: 08/994,758

Date: 1-13-99

Phone: 308-1706

Art Unit: 2851

Search Topic:

Please write a detailed statement of search topic. Describe specifically as possible the subject matter to be searched. Define any terms that may have a special meaning. Give examples or relevant citations, authors, keywords, etc., if known. For sequences, please attach a copy of the sequence. You may include a copy of the broadest and/or most relevant claim(s).

Litigation
Relevant Patent No. 5,477,304

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Date completed: 1/14/99

Searcher: Patricia E. Fisher

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Type of Search

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MATHEWS 08/994758

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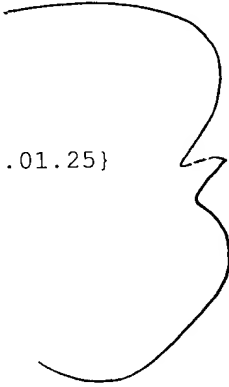
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SEL 8

SS 1 RESULT (1)

SS 2?
PRT FU

-1- (LEGSTAT)
PN - US 5477304 [US5477304]
DT - US-P
ACT - 95.01.25 US/AE-A
APPLICATION DATA (PATENT)
{US 377504/95 [95US-377504] 95.01.25}
ACT - 95.12.19 US/A
PATENT
ACT - 98.07.07 US/RF
REISSUE APPLICATION FILED
971219
UP - 9835



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nbr 5477304/pn

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14	1	5477305/PN
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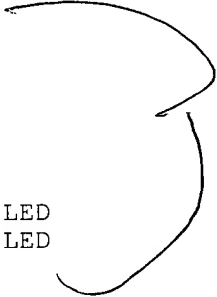
UP N OR DOWN N?

SEL 13

SS 1 RESULT (1)

SS 2?
PRT FU

-1- (PAST)
AN - 9827-000999
PN - US5477304
DT - A (UTILITY)
OG - 98.07.07
CO - REA
ACT - REISSUE APPLICATION FILED
SH - REISSUE APPLICATION FILED



SS 2?

File 345:Inpadoc/Fam.& Legal Stat. 1998/UD=9901
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Set Items Description

? E PN=US 5477304

Ref	Items	Index-term
E1	1	PN=US 5477302
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E3	1	*PN=US 5477304
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E5	1	PN=US 5477306
E6	1	PN=US 5477307
E7	1	PN=US 5477308
E8	1	PN=US 5477309
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E10	1	PN=US 5477311
E11	1	PN=US 5477312
E12	1	PN=US 5477313

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S1 1 PN="US 5477304"
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1/9/1
DIALOG(R)File 345:Inpadoc/Fam.& Legal Stat.
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11796930
Basic Patent (No,Kind,Date): JP 6132195 A2 940513 <No. of Patents: 003>

PATENT FAMILY:

JAPAN (JP)

Patent (No,Kind,Date): JP 6132195 A2 940513

PROJECTION OPTICAL DEVICE (English)

Patent Assignee: NIPPON KOGAKU KK

Author (Inventor): NISHI TAKECHIKA

Priority (No,Kind,Date): JP 92284371 A 921022

Applic (No,Kind,Date): JP 92284371 A 921022

IPC: * H01L-021/027; G03B-027/32; G03F-009/00

Derwent WPI Acc No: * G 94-194843; G 94-194843

JAPIO Reference No: * 180419E000111; 180419E000111

Language of Document: Japanese

Patent (No,Kind,Date): JP 6140305 A2 940520

PROJECTION ALIGNER (English)

Patent Assignee: NIPPON KOGAKU KK

Author (Inventor): NISHI TAKECHIKA

Priority (No,Kind,Date): JP 92289985 A 921028

Applic (No,Kind,Date): JP 92289985 A 921028

IPC: * H01L-021/027; G03B-027/32; G03F-007/20; G03F-009/00;

H01L-021/68

Derwent WPI Acc No: * C 94-203742; C 94-203742

JAPIO Reference No: * 180442E000050; 180442E000050

Language of Document: Japanese

UNITED STATES OF AMERICA (US)

Patent (No,Kind,Date): US 5477304 A 951219

PROJECTION EXPOSURE APPARATUS (English)
Patent Assignee: NIPPON KOGAKU KK (JP)
Author (Inventor): NISHI KENJI (JP)
Priority (No,Kind,Date): US 377504 A 950125; JP 92284371 A
921022; JP 92289985 A 921028; US 139803 B1 931022
Applic (No,Kind,Date): US 377504 A 950125
National Class: * 355053000; 355050000
IPC: * G03B-027/42; G03B-027/48; G03B-027/50
Derwent WPI Acc No: * C 94-203742; G 94-194843
JAPIO Reference No: * 180419E000111; 180442E000050
Language of Document: English

UNITED STATES OF AMERICA (US)

Legal Status (No, Type, Date, Code, Text):

US 5477304	P	921022	US AA	PRIORITY (PATENT)
			JP 92284371	A 921022
US 5477304	P	921028	US AA	PRIORITY (PATENT)
			JP 92289985	A 921028
US 5477304	P	931022	US AA	PRIORITY
			US 139803 B1	931022
US 5477304	P	950125	US AE	APPLICATION DATA (PATENT)
			(APPL. DATA (PATENT))	
			US 377504 A	950125
US 5477304	P	951219	US A	PATENT
US 5477304	P	980707	US RF	REISSUE APPLICATION FILED
			(REISSUE APPL. FILED)	
			971219	

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---CASES & ADMINISTRATIVE DECISIONS---

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FEDCTS 2 Patent cases from Fed. Cts.
CCPA 2 Ct Customs & Patent Appeals
CAFC 2 Patent cases from Fed. Cir.
PTO 2 PATAPP & COMMR

-----SECONDARY SOURCES-----

CHISUM 5 Chisum on Patents
MPEP 5 Manual of Patent Exam Proc
PTORUL 5 Patent Office Rules
MILGRM 5 Milgrim on Trade Secrets
IPLTR 5 Intell Prop Law Nwltrs
IPLR 5 Intell Prop Law Rev Articles

* Selected coverage 1/15/71 to 12/3/74

-----PATENTS-----

ALL 4 UTIL, DESIGN, PLANT, SIR,
REEXAM & REISS
UTIL 4 Full Text Patents from 1971*
DESIGN 4 Full Text Patents from 1976
PLANT 4 Full Text Patents from 1976
REEXAM 4 Reexamination Certificates
REISS 4 Reissue Patents
SIR 4 Defensive Publications
ASSIGN 4 Assignee
ABSTCL 4 Abstracts & Claims

*Checked all these files
+ only found 1 listing
in US patent file*

5,477,304

<=2> GET 1st DRAWING SHEET OF 13

Dec. 19, 1995

Projection exposure apparatus

REISSUE: Reissue Application filed Dec. 19, 1997 (O.G. Jul. 7, 1998) Ex. Gp.:
2101; Re. S.N. 08/994,758

INVENTOR: Nishi, Kenji, Kawasaki, Japan

ASSIGNEE-AT-ISSUE: Nikon Corporation, Tokyo, Japan (03)

APPL-NO: 377,504

FILED: Jan. 25, 1995

FOR-PRIOR:

Oct. 22, 1992	Japan	4-284371
Oct. 28, 1992	Japan	4-289985

REL-US-DATA:

Continuation of Ser. No. 139,803, Oct. 22, 1993 now abandoned

INT-CL: [6] G03B 27#42; G03B 27#48; G03B 27#50

US-CL: 355#53; 355#50;

CL: 355;

SEARCH-FLD: 355#50, 51, 53, 55

REF-CITED:

U.S. PATENT DOCUMENTS

	3,538,828	11/1970	* Genovese	95#18
<=4>	4,747,678	5/1988	* Shafer et al.	350#505
<=5>	4,924,257	5/1990	* Jain	355#53
<=6>	5,004,348	4/1991	* Magome	356#401
<=7>	5,227,839	7/1993	* Allen	355#53

PRIM-EXMR: Wintercorn, Richard A.

LEGAL-REF: Shapiro and Shapiro

CORE TERMS: scanning, reticle, wafer, mask, illumination, pulse, optical, projection, substrate, photosensitive, drive, illuminance, laser, control system, scanned, emission, adjustment, fine, interferometer, constant, perpendicular, radiated, movable, beta, moving, deviation, exposure, energy, slit, rotational

ABST:

Constant speed drive of a reticle and a wafer in a relative scanning direction and positioning of the reticle and the wafer are simultaneously performed with high precision by a slit scanning exposure scheme. A reticle side scanning stage for scanning a reticle relative to a slit-like illumination area in the relative scanning direction is placed on a reticle side base. A reticle side fine adjustment stage for moving and rotating the reticle within a two-dimensional plane is placed on the reticle side scanning stage. The reticle is placed on the reticle side fine adjustment stage. Constant speed drive and positioning of the reticle and a wafer are performed by independently controlling the reticle side scanning stage and the reticle side fine adjustment stage.

5,477,304 OR 5477304

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(FILE 'HOME' ENTERED AT 08:24:56 ON 12 JAN 1999)

FILE 'INPADOC' ENTERED AT 08:25:33 ON 12 JAN 1999

L1 0 S JP630128713/PN
L2 1 S JP63128713/PN

=> s jp63128713/pn

L2 1 JP63128713/PN

=> d l2 fam ibib

L2. ANSWER 1 OF 1 INPADOC COPYRIGHT 1999 EPO

PRAI 1: JP 86-275976 861119
(1) PI JP 63128713 A2 880601
(2) PI JP 05029129 B4 930428

2 members, 1 priorities, 1 countries

AN: 15067089 INPADOC UW 8848 UP 881211

TITLE: CORRECTION OF DISTORTION IN SCANNING ALIGNER

INVENTOR(S):

ORIGINAL: SUZUKI MASAKI

STANDARDIZED: SUZUKI MASAKI

PATENT ASSIGNEE(S):

ORIGINAL: MATSUSHITA ELECTRIC IND CO LTD

STANDARDIZED: MATSUSHITA ELECTRIC IND CO LTD

DOCUMENT TYPE: Patent

PATENT INFO. TYPE: JPA2 DOCUMENT LAID OPEN TO PUBLIC INSPECTION

	NUMBER	DATE
PATENT INFORMATION:	JP 63128713	A2 880601
APPLICATION INFORMATION:	JP 86-275976	A 861119
PRIORITY APPLN. INFO.:	JP 86-275976	A 861119
OTHER SOURCE DERWENT:	88-192711	
OTHER SOURCE JAPIO:	120385E000067	